ELSEVIER

Colloids and Surfaces
A: Physicochemical and Engineering Aspects 134 (1998) 377–378

COLLOIDS AND SURFACES A

Contents of Volume 134

Preface 1

Equilibrium and non-equilibrium applications of lattice-gas models in electrochemistry
P.A. Rikvold (Tallahassee, FL, USA/Kyoto, Japan), G. Brown, M.A. Novotny (Tallahassee, FL, USA) and A. Wieckowski (Urbana, IL, USA) 3

An in-situ and ex-situ study of chloride adsorption on Cu(111) electrodes in dilute HCl solutions
B. Wohlmann, Z. Park, M. Kruft, C. Stuhlmann and K. Wandelt (Bonn, Germany) 15

Structures and dynamic processes of molecular adlayers on Rh(111) and Pt(111) in HF solution: naphthalene and biphenyl
S.-L. Yau (Chungli, Taiwan) and K. Itaya (Sendai, Japan) 21

Electrode-surface coordination chemistry: ligand (–SH/I) substitutions at polycrystalline platinum
G.M. Berry, E. Binamira-Soriaga and M.P. Soriaga (Dallas, TX, USA) 31

Interaction of sulfate ions with monocrystalline silver electrodes
J. Sobkowski, S. Smoliński and P. Zelenay (Warsaw, Poland) 39

DC surface conductance as a tool for the study of electrochemical interfaces
S.A. Bilmes (Buenos Aires, Argentina) and D. Posadas (La Plata, Argentina) 47

Stable mercury films on gold for the electrochemical quartz crystal microbalance
K. Cho, S. Yoon, M.C. Jung and H. Kim (Seoul, South Korea) 59

Tetraalkylammonium cation clathrate hydrates in interfacial electrochemistry
Z. Borkowska, M. Opallo, A. Tymosiak-Zielinska and P. Zoltowski (Warsaw, Poland) 67

Surface morphology and the quartz crystal microbalance response in liquids
M. Urbakh and L. Daikhin (Tel-Aviv, Israel) 75

Reversible 2D to 3D electrode transitions in polypyrrole films
T.F. Otero and H.-J. Grande (San Sebastián, Spain) 85

Interaction of pyridine with photoelectrons emitted at the silver/aqueous solution interface
M. Fedurco and J. Augustynski (Geneva, Switzerland) 95

In situ vibrational spectroscopy analysis of adsorbed phosphate species on gold single crystal electrodes
M. Weber, I.R. de Moraes, A.J. Motheo and F.C. Nart (São Carlos, Brazil) 103

The effects of anions on the underpotential deposition of Hg on Au(111). An electrochemical and in situ surface X-ray diffraction study
J. Li, E. Herrero and H.D. Abruña (Ithaca, NY, USA) 113

Reactivity of Pt(*h*,*k*,*l*) surfaces
V. Climent, R. Gómez, E. Herrero, J.M. Orts, A. Rodes and J.M. Feliu (Alicante, Spain) 133

Reactivity and extent of poisoning during methanol electro-oxidation on platinum (100) and (111): A comparative study
T.D. Jarvi, S. Sriramulu and E.M. Stuve (Seattle, WA, USA) 145

Coadsorption, non-reactive displacement and cathodic desorption of ethene preadsorbed on Pd and Pt electrodes
U. Müller, A. Dülberg and H. Baltruschat (Bonn, Germany) 155

Structure of Br adlayers in the course of electrocatalytic reactions. O_2 reduction on Pt (111) and Au (100)
J.X. Wang, N.S. Marinković and R.R. Adžić (Upton, NY, USA) 165

Interfacial electron transfer and bulk charge propagation in solid-state voltammetry of mixed-valence inorganic material
P.J. Kulesza, B. Karwowska and M.A. Malik (Warsaw, Poland) 173

On the formation and dissolution kinetics of two-dimensional uracil ordered phases at the gold single crystal electrode–aqueous solution interface
S. Baré and C. Buess-Herman (Brussels, Belgium) 181

Investigation of Pt particles on gold substrates by IR spectroscopy. Particle structure and catalytic activity
K.A. Friedrich, F. Henglein, U. Stimming and W. Unkauf (Jülich, Germany) 193

Chemical states of bismuth and sulfur adatoms on the polycrystalline Pt electrode surface towards HCOOH oxidation — combined studies of cyclic voltammetry, in situ FTIRS and XPS on the origin of electrocatalytic activity of adatoms
S.-G. Sun, S.-P. Chen, N.-H. Li, G.-Q. Lu, B.-Z. Chen and F.-C. Xu (Xiamen, People's Republic of China) 207
Probing electrode surface chemical composition with core and valence band photoemission and an anaerobic cell
P.M.A. Sherwood (Manhattan, Kansas, USA) 221
Developments in photoelectrochemistry: light-addressable photoelectrochemical cyanide sensors
S. Licht (Haifa, Israel) 231
Novel aluminum batteries: a step towards derivation of superbatteries
S. Licht (Haifa, Israel) 241
Adsorption of styryl pyridinium dyes on polyethylene-glycol-treated silica
S.K. Parida and B.K. Mishra (Jyoti Vihar, India) 249
Adsorption layers of water on the surface of hydrophilic, hydrophobic and mixed silicas
V.V. Turov and I.F. Mironyuk (Kyiv, Ukraine) 257
Systematic control of size, shape and internal structure of monodisperse α-Fe_2O_3 particles
T. Sugimoto, Y. Wang, H. Itoh and A. Muramatsu (Sendai, Japan) 265
FTIR analysis of well-defined α-Fe_2O_3 particles
Y. Wang, A. Muramatsu and T. Sugimoto (Sendai, Japan) 281
Determination of the surface tension of microporous membranes using wetting kinetics measurements
J. Tröger, K. Lunkwitz, K. Grundke (Dresden, Germany) and W. Bürger (Putzbrunn, Germany) 299
Mn_3O_4 and γ-MnOOH powders, preparation, phase composition and XPS characterisation
S. Ardizzone, C.L. Bianchi and D. Tirelli (Milan, Italy) 305
Surface and thermodynamic properties of *p*-alkylbenzene polyethoxylated and glycerated sulfonate derivative surfactants
A.M. Al Sabagh (Cairo, Egypt) 313
The effect of thermal treatment of silica gel on its surface free energy components
L. Hołysz (Lublin, Poland) 321
Modification of ultrafiltration membranes by deposition of colloid particles
R.G. Alargova, J.T. Petkov, N.D. Denkov, D.N. Petsev and I.B. Ivanov (Sofia, Bulgaria) 331
Thermogravimetric analysis of the porosity at isobaric conditions
J. Goworek and W. Stefaniak (Lublin, Poland) 343
Adsorption and rheological studies of sodium carboxymethyl cellulose onto kaolin: effect of degree of substitution
J.C. Husband (St Austell, UK) 349
Aqueous dispersions of colloidal gibbsite platelets: synthesis, characterisation and intrinsic viscosity measurements
A.M. Wierenga, T.A.J. Lenstra and A.P. Philipse (Utrecht, Netherlands) 359

Author Index 373
Subject Index 375